

156840

Wednesday, February 08, 2017 9:10:55 AM

Accept

N900040100

Setup Start *NS1*

Stop *NS2*

Item Name: Clip

Start Date: 1/25/2017 **Start Qty:** 10.00

10

Cust Item ID:

Required Date: 2/10/2017 **Req'd Qty:** 10.00

10

Customer:

Reference:

Approvals: Process Plan: DAS Date: FEB 09 2017
21

Tooling:

Date:

Run Start *NR1*

QC: 9-89

Date:

SPC (Y/N):

Date:

Stop ***NR2***

110

0.04

110

Waterjet

FLOW CNC Waterjet

Memo

1-Cut as per Dwg

Dwg Rev: A

Prog Rev: A

2-Deburr if necessary

0.05

120

QC2- Inspect parts off machine FAI/FAIB

0.00

120

QC

Quality Control

Memo

0.02

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabelled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
OTHER : _____									

Work Order ID 156840***156840***

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Wednesday, February 08, 2017 9:10:55 AM

Item ID: 646.3711 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Clip
Start Date: 1/25/2017 Start Qty: 10.00 ***10*** Cust Item ID:
Required Date: 2/10/2017 Req'd Qty: 10.00 ***10*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130* QC Quality Control	QC8- Inspect parts - second check Memo	0.00 0.03				10			DAS 38 9-89 FEB 13 2017
140 *140* Brake NC Brake NC	Form as per dwg Memo	0.02 0.07			DAS 30 9-89	10			FEB 21 2017
150 *150* QC Quality Control	QC5- Inspect part completeness to step on W/O Memo	0.00 0.03				10			DAS 38 9-89 FEB 22 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
		OTHER : _____							

Work Order ID 156840

Wednesday, February 08, 2017 9:10:55 AM

156840

Page 3

Item ID: 646.3711 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Clip
Start Date: 1/25/2017 Start Qty: 10.00 ***10*** Cust Item ID:
Required Date: 2/10/2017 Req'd Qty: 10.00 ***10*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
160 *160* Outsource4 Outsource process - Anodize	Outsource process-Anodize per QSI017 4.1.10.1 Memo Issue P/O to ATG : <u>35521</u> 1- Black Anodize as per Dwg 646.3700 2- PRIME AS PER DWG, SEE NOTE #2 Certification of Comformity is required	0.00 133.33				<u>10</u>		<u>MAR 08 2017</u>	DAS 13 9-89
170 *170* Packaging Packaging	Receive & Inspect for Damage & Mat'l Certs Memo	0.00 0.03							<u>10XSP17-0327</u>
180 *180* QC Quality Control	QC5- Inspect part completeness to step on W/O Memo <u>2.9 mils thickness prime</u>	0.00 0.03				<u>10</u>			DAS 38 9-89 <u>MAR 28 2017</u>

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Work Order ID 156840***156840***

Page 4

Wednesday, February 08, 2017 9:10:55 AM

Item ID: 646.3711 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Clip
Start Date: 1/25/2017 Start Qty: 10.00 ***10*** Cust Item ID:
Required Date: 2/10/2017 Req'd Qty: 10.00 ***10*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
210	Identify as per dwg & Stock Location <u>CCT104</u>	0.00							
210									
Packaging	Memo	0.02							
Packaging	***IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV***								
220	QC21- Final Inspection - Work Order Release	0.00							
220									
QC	Memo	0.17							
Quality Control									

10 **DAS** **89** **MAR 29 2017**

17/3/30 **MF** 17-3-29

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By																																																									
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Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

Wednesday, February 08, 2017 9:10:54 AM

Page 1

Work Order ID: 156840

156840

Parent Item: 646.3711

646 3711

Parent Item Name: Clip

Start Date: 1/25/2017

Required Date: 2/10/2017

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP REV:A 12.11.23 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M6061T6S.063		Purchased	No			110	sf	179.4100	0.036	0.378947			
M6061T6S 063									**			02/17/02/12	
6061-T6 .063 Sheet													

Location

Loc Qty

Loc Code

MAT021

179.41

M134604

96.3

M134830

2.61

M136251

80.5

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong		
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions		
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance		
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect		
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing		
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved		
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing		
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish		
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread		
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence		
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____					
Misidentified ☐	☐ Past Due						

FIRST ARTICLE INSPECTION CHECKLIST

Measured by:	pc	Audited by:	38 9-89	Preliminary Approval:	
Date:	17/02/12	Date:	FEB 13 2017	Date:	

Rev	Date	Change	Revised by	Approved
A	13.03.04	New Issue	KJ	

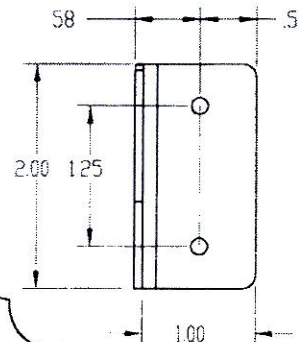
APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 03702				SHEET 1 OF 2	
	DWG NO. 646.3700	REV: A	PREPARED BY B. PETERS	DATE: 11/15/12	EFFECT ON DWG ☐ INC. ☒ UNINC.	
	DWG TITLE: SHEETMETAL					
	APPROVED BY: ENGR. <i>[Signature]</i>	MFG. <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: NEXT ORDER		
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE	REASON: ADDED ALTERNATE MATERIAL AND REVISED REFERENCE DIMENSIONS				EOR: D-12-010	

SHEET 1, ZONE A2 IS:

IS

⚠ PRIMARY MATERIAL: ALUMINUM 6061-T6 PER AMS-QQ-A-250/11
ALTERNATE MATERIAL: SS 17-4 PH PER AMS 5604

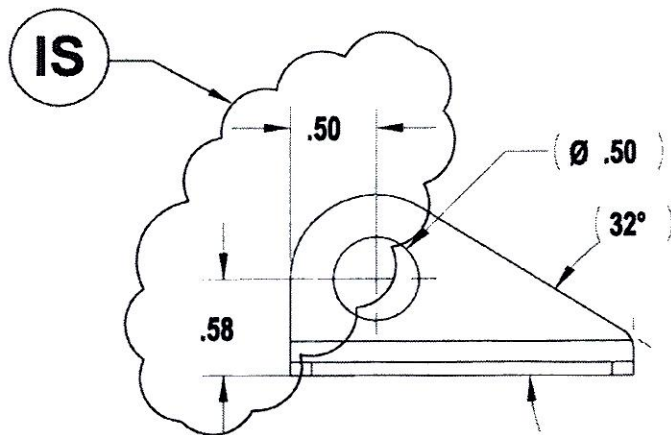
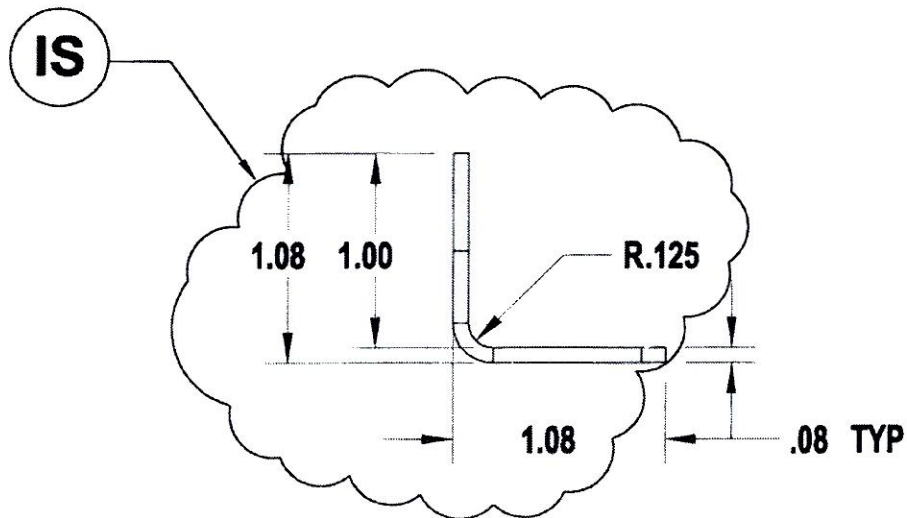
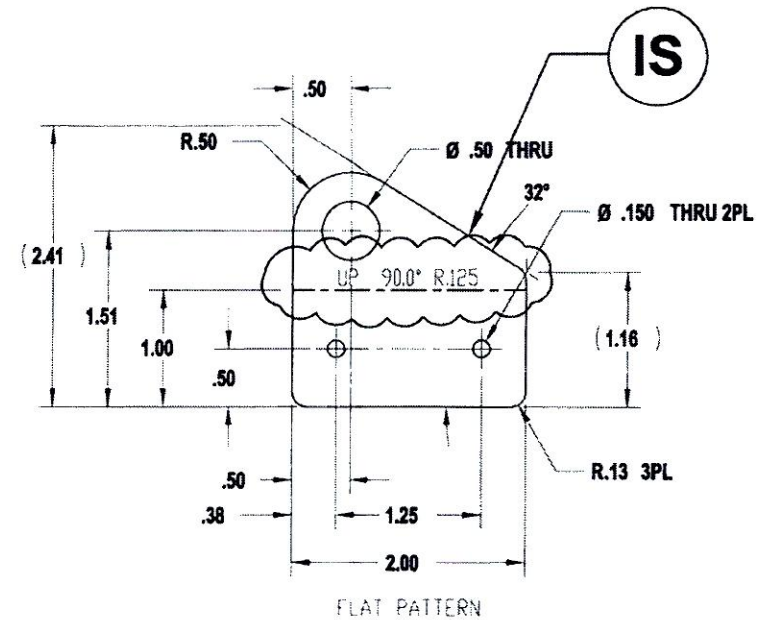
IS



SHEET 7, ZONE B1 IS:

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 156840 MWS
17-02-09

F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL	SPECIFICATION
DOCUMENTS EFFECTED:					CHANGE CATEGORY	DER REVIEW REQUIRED
☐ RFMS ☐ MDL ☐ INSTALL INSTRU ☐ ICA ☐ BOM					☐ MAJOR ☒ MINOR	☐ YES ☒ NO

**SHEET 7, ZONE C4 IS:****SHEET 7, ZONE D1 IS:****SHEET 7, ZONE B7 IS:**

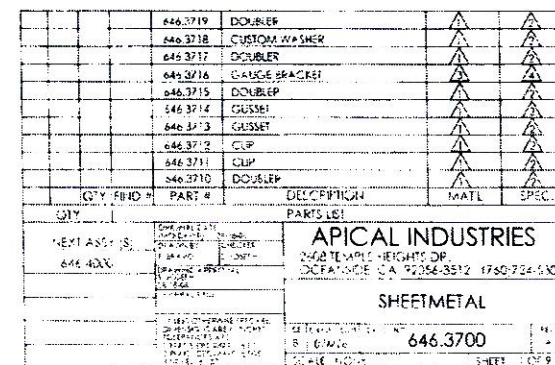
F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL/SPECIFICATION
-----	----	-------------	-----	-------------	------------------------

[illegible]

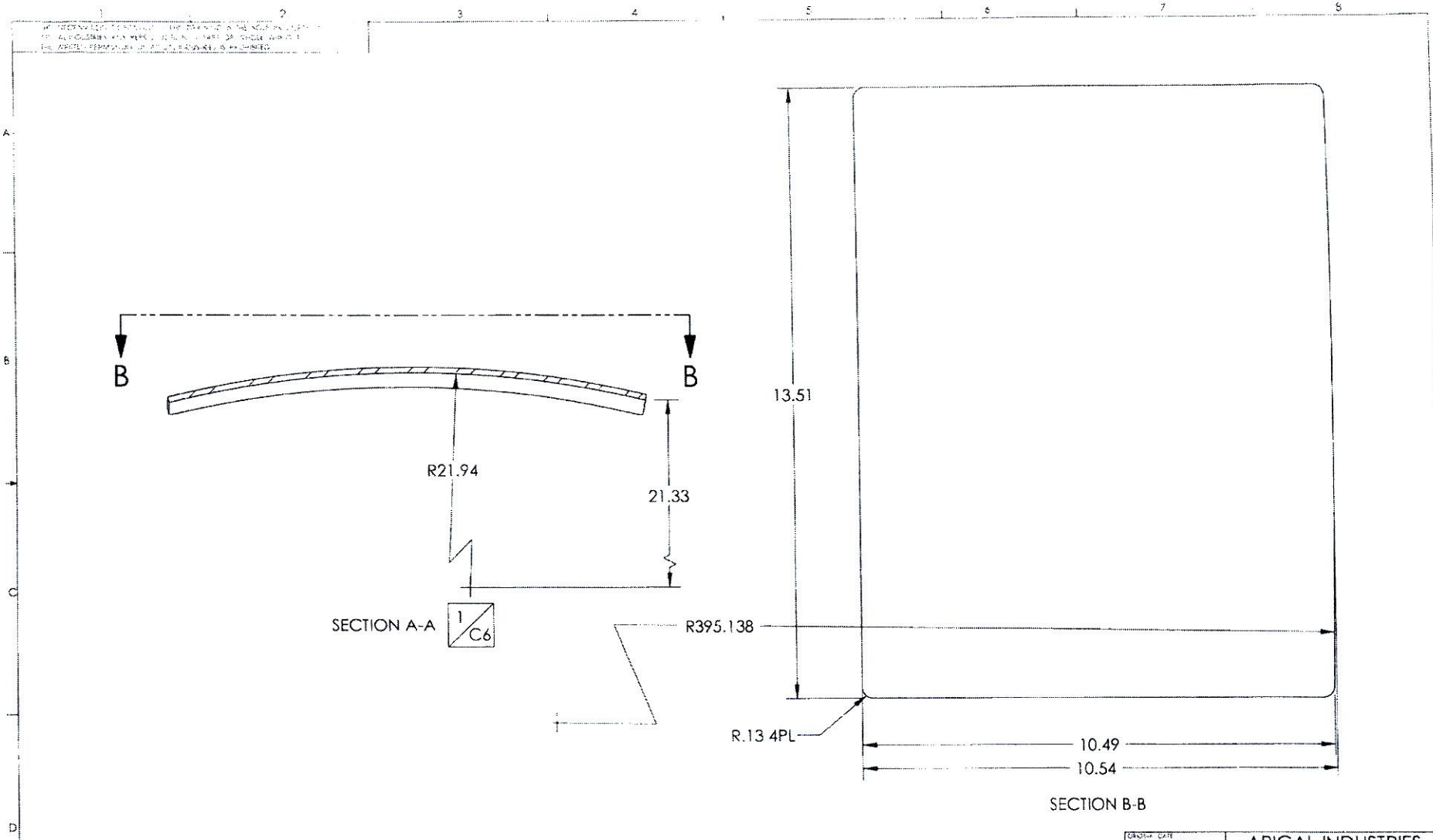
1. MATERIAL: ALUMINUM 6061-T6 PER AMS-QQ-A-250/11
2. FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III.
CLASS 2. COLOR BLACK:
CANAL 4860.50 PRETREATMENT PRIMER
PRIME IAW MIL-P-23377J TYPE I CLASS N
3. MATERIAL: 17-4 PH AMS 5604 CONDITION H900
4. FINISH: PRIME IAW MIL-P-23377J TYPE I CLASS N
5. DEBURR AND BREAK ALL SHARP EDGES
6. IDENTIFY IAW MPP-120

UNINCORPORATED ECN(S)

0370E



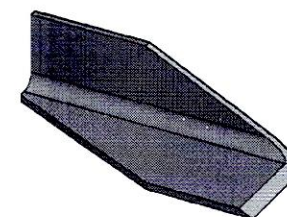
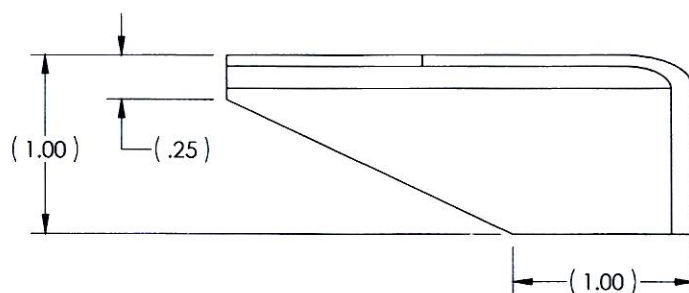
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED
 ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED
 THE APICAL INDUSTRIES OF ALTA, CALIFORNIA IS THE DESIGNER



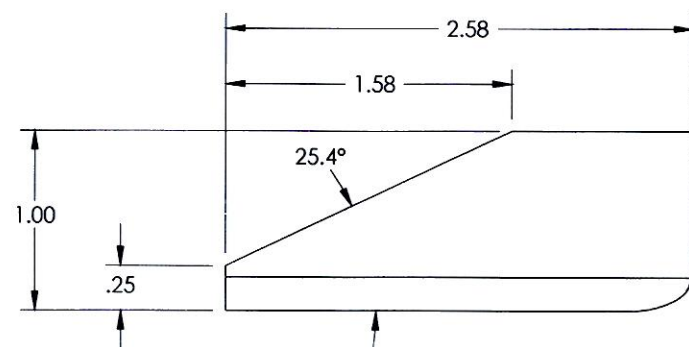
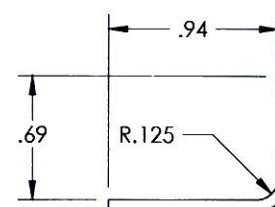
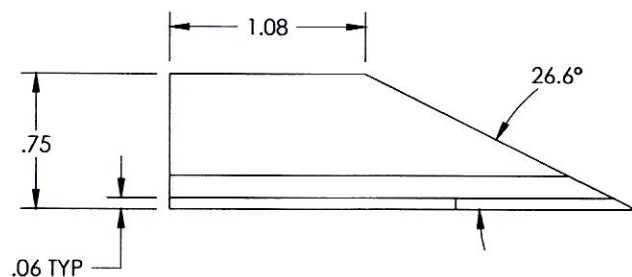
DESIGN DATE DRAWN BY CHECKED BY PROJECT NO. SHEET NO.	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. CAPEANSIDE, CA 92034-3512 760/724-5310 SHEETMETAL 646.3700 SCALE: NONE	PART NO. QTY UNIT TOTAL PRICE TOTAL PRICE
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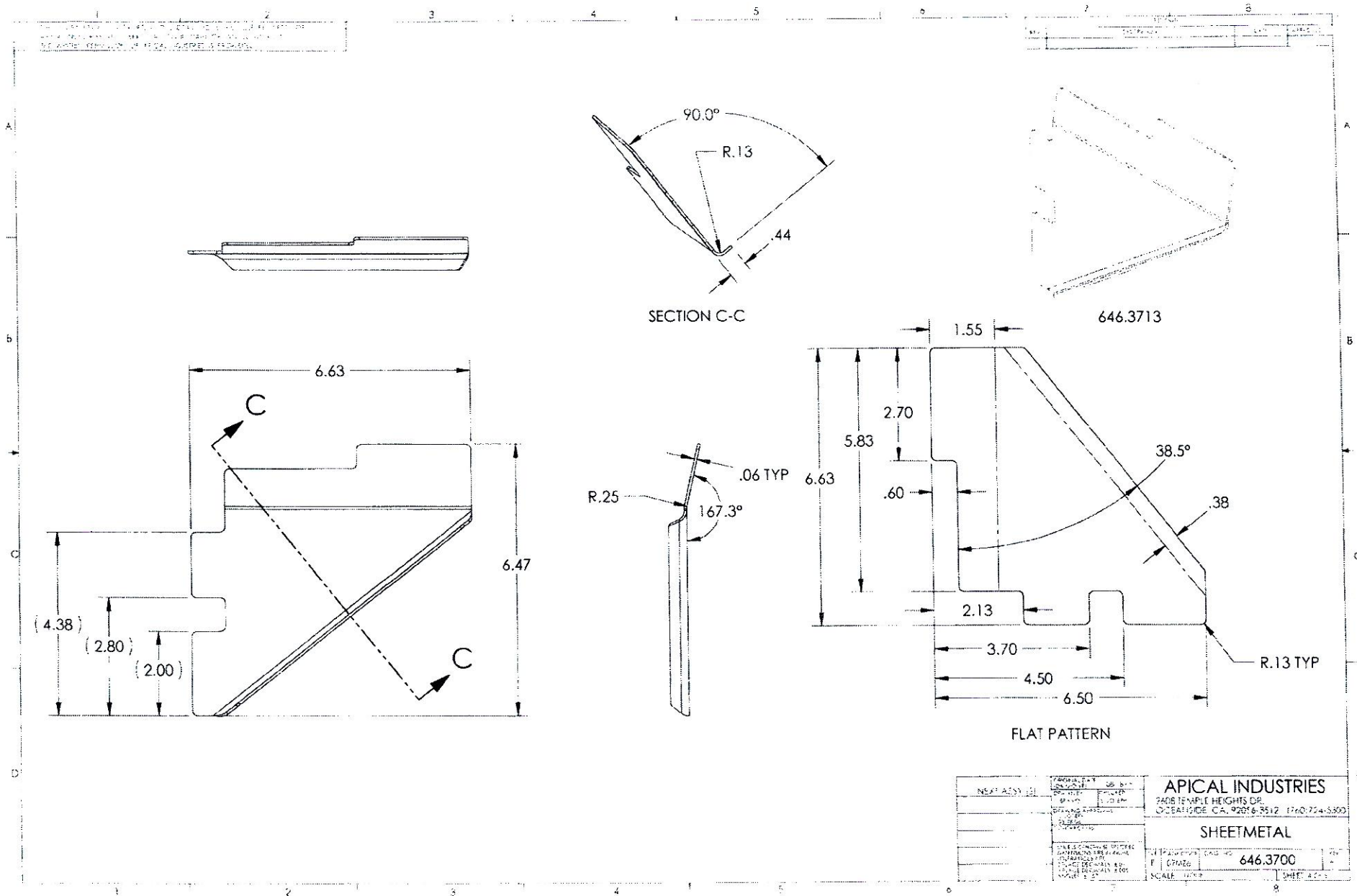
REV	DESCRIPTION	DATE	APPROVED



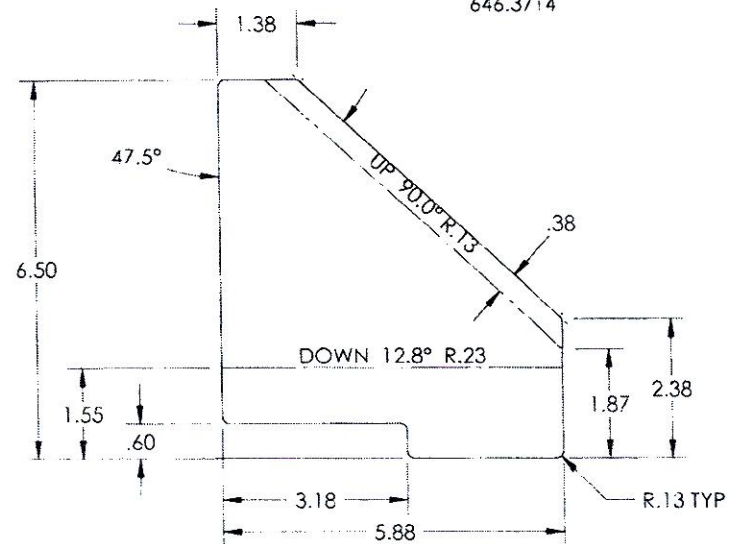
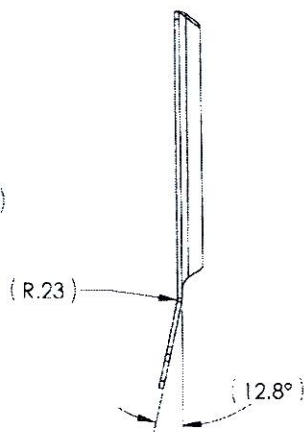
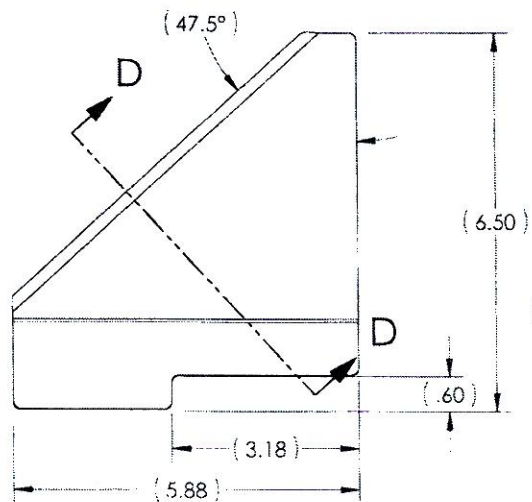
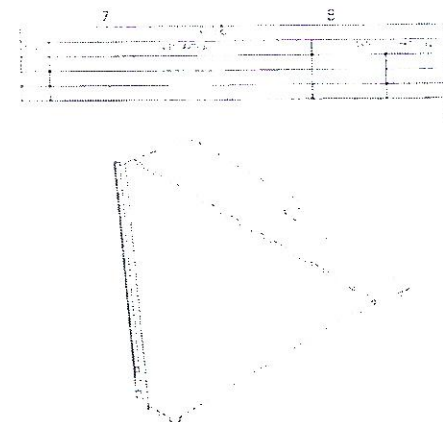
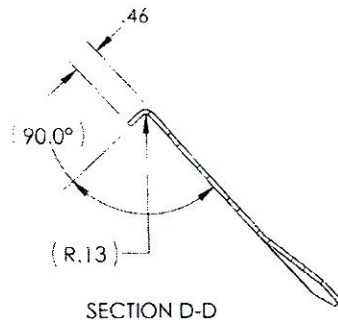
646.3711 SHOWN
646.3712 OPPOSITE



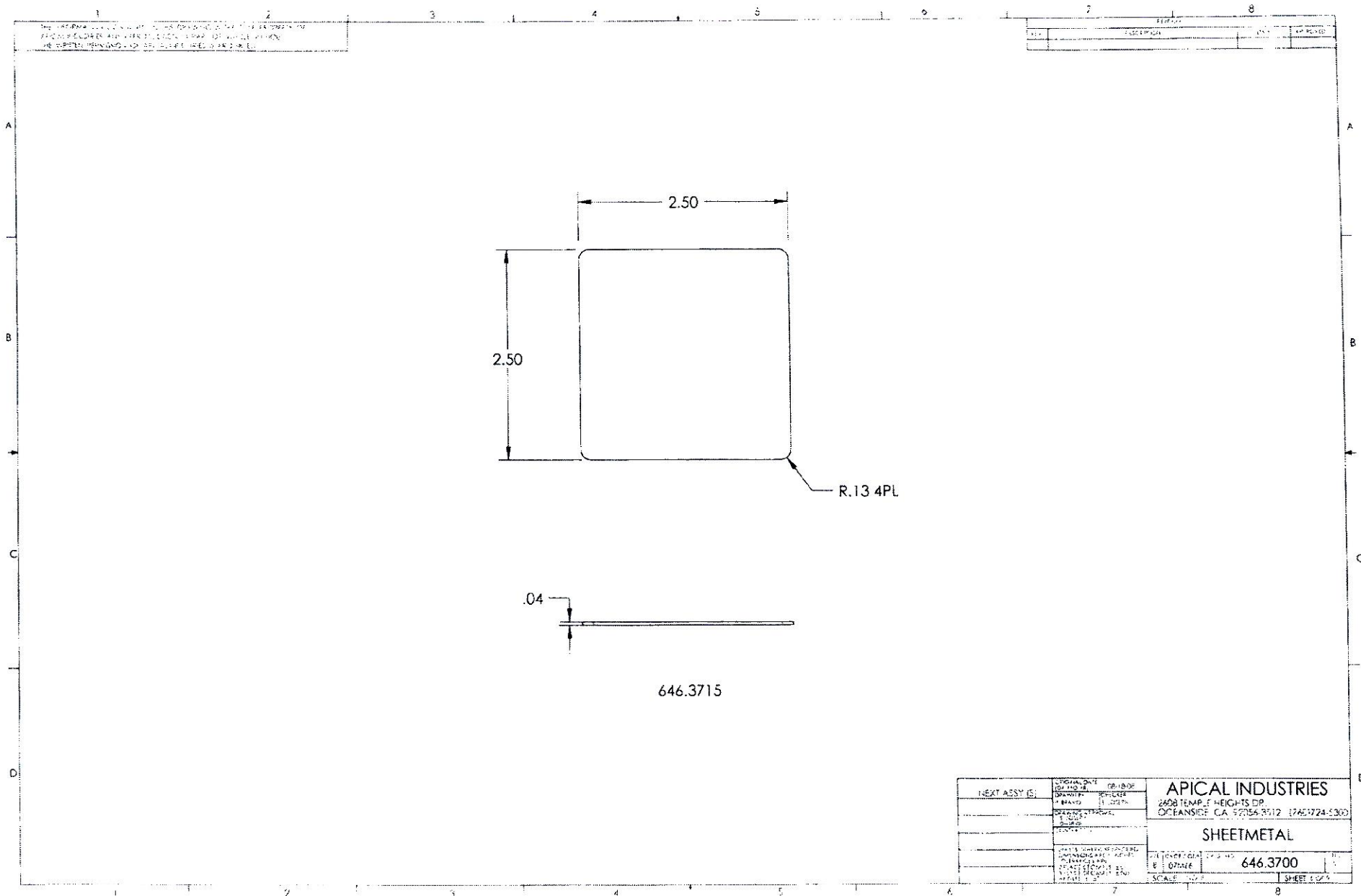
NEXT ASSY (S)	ORIGINAL DATE	08-18-08	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300	
	DRAWN BY	F. BRAYO		
	CHECKED	S. JOSEPH	SHEETMETAL	
	DESIGNED	S. JOSEPH		
	CONTRACT NO.		SITE: B CAGE CODE: 07M26 DWG. NO: 646.3700 REV: A	
	UNLESS OTHERWISE SPECIFIED			
	DIMENSIONS ARE IN INCHES		SCALE: NONE SHEET 3 OF 9	
	TOLERANCES ARE:			
	2 PLACE DECIMALS: ± .01			
	3 PLACE DECIMALS: ± .005			
	ANGLES: ± 5°			

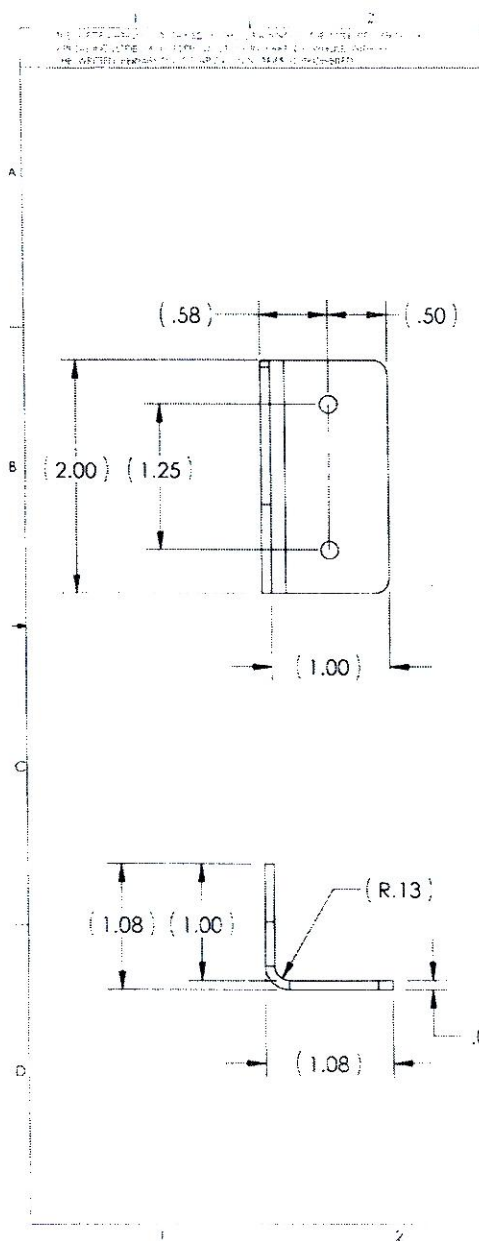


NEXT ASSY. IS:		APICAL INDUSTRIES	
PART NAME:		7405 TEMPLE HEIGHTS DR.	
QUANTITY:		OCEANVIEW, CA. 92016-3512 (760) 724-5300	
DRAWN BY:		SHEETMETAL	
CHECKED BY:		F 07/26	
DATE:		646.3700	
SCALE:		1 SHEET	

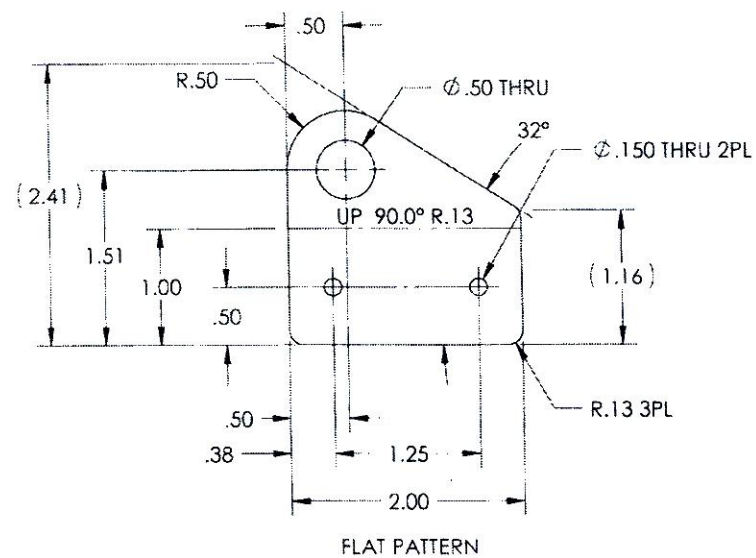
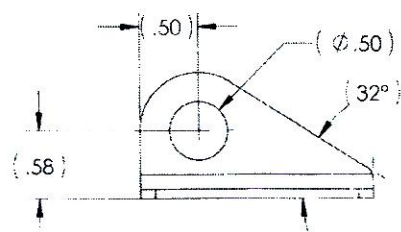


APICAL INDUSTRIES 26 RITTENHEIM HEIGHTS DR. CECILIA, CA 92056-3512 (760) 724-5300	
SHEETMETAL	
646.3700 11/10/00	646.3700 11/10/00
SHEET 5 OF 2	

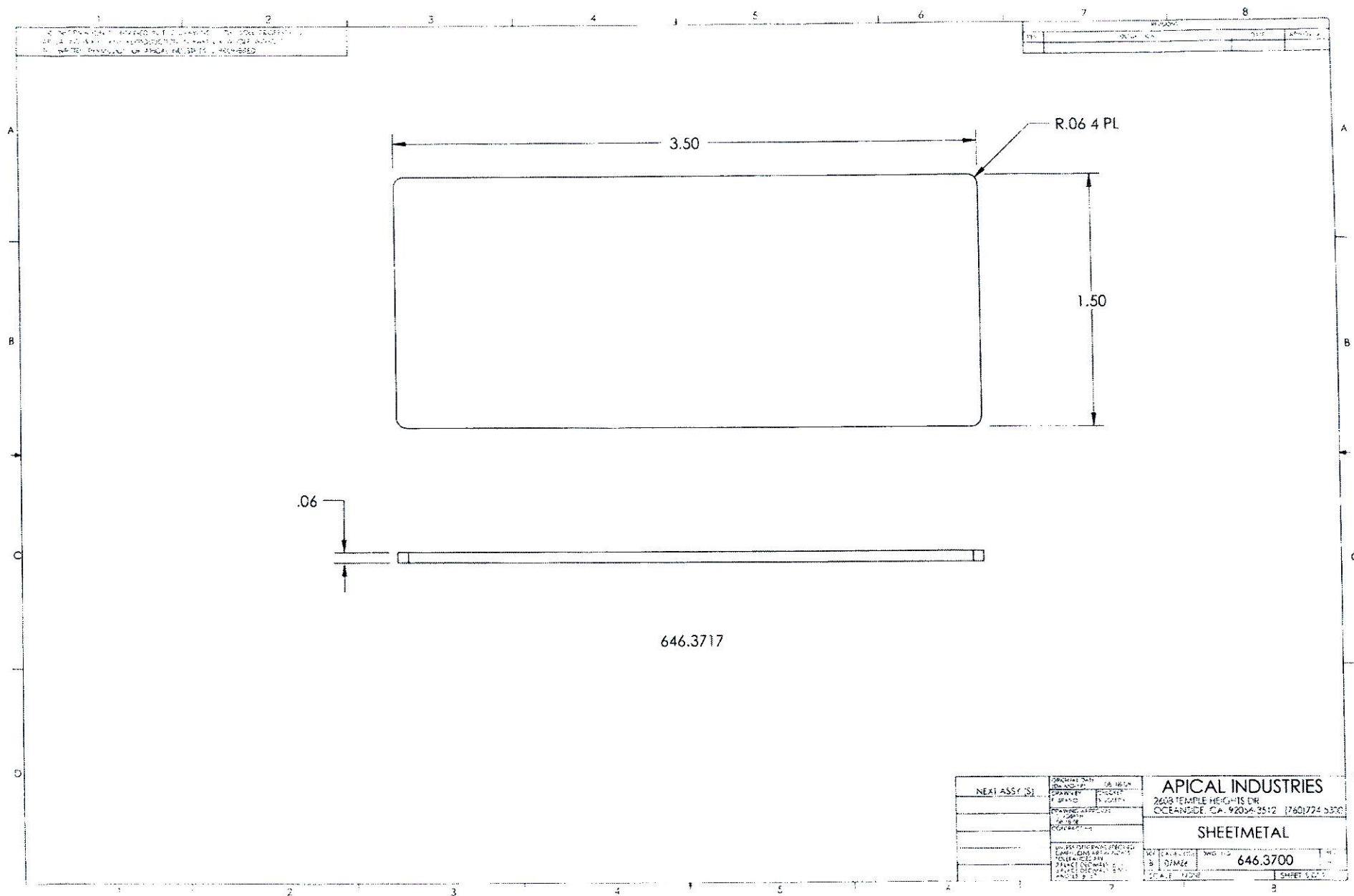


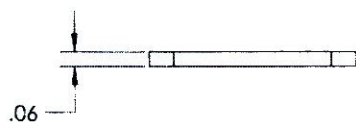


646.3716

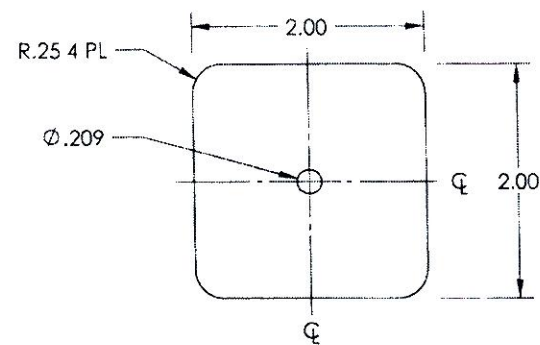


NEXT ASSY IS	APICAL INDUSTRIES 2408 N. M. P. H. E. I. G. H. T. S. D. P. OCEANVIEW, CA 92066-3512 (760) 724-5300	SHEETMETAL
PART NO.	646.3700	SHEET 10





A technical drawing showing a cross-section of a shaft. A vertical dimension line with arrows at both ends indicates a diameter of .06. The shaft is represented by two horizontal lines, with the upper line having a break symbol (two parallel lines at an angle) near the left end.



NEXT ASSY IS 1. REPAIR 2. REPLACE 3. REPAIR 4. REPLACE 5. REPAIR 6. REPLACE 7. REPAIR 8. REPLACE 9. REPAIR 10. REPLACE 11. REPAIR 12. REPLACE 13. REPAIR 14. REPLACE 15. REPAIR 16. REPLACE 17. REPAIR 18. REPLACE 19. REPAIR 20. REPLACE 21. REPAIR 22. REPLACE 23. REPAIR 24. REPLACE 25. REPAIR 26. REPLACE 27. REPAIR 28. REPLACE 29. REPAIR 30. REPLACE 31. REPAIR 32. REPLACE 33. REPAIR 34. REPLACE 35. REPAIR 36. REPLACE 37. REPAIR 38. REPLACE 39. REPAIR 40. REPLACE 41. REPAIR 42. REPLACE 43. REPAIR 44. REPLACE 45. REPAIR 46. REPLACE 47. REPAIR 48. REPLACE 49. REPAIR 50. REPLACE 51. REPAIR 52. REPLACE 53. REPAIR 54. REPLACE 55. REPAIR 56. REPLACE 57. REPAIR 58. REPLACE 59. REPAIR 60. REPLACE 61. REPAIR 62. REPLACE 63. REPAIR 64. REPLACE 65. REPAIR 66. REPLACE 67. REPAIR 68. REPLACE 69. REPAIR 70. REPLACE 71. REPAIR 72. REPLACE 73. REPAIR 74. REPLACE 75. REPAIR 76. REPLACE 77. REPAIR 78. REPLACE 79. REPAIR 80. REPLACE 81. REPAIR 82. REPLACE 83. REPAIR 84. REPLACE 85. REPAIR 86. REPLACE 87. REPAIR 88. REPLACE 89. REPAIR 90. REPLACE 91. REPAIR 92. REPLACE 93. REPAIR 94. REPLACE 95. REPAIR 96. REPLACE 97. REPAIR 98. REPLACE 99. REPAIR 100. REPLACE 101. REPAIR 102. REPLACE 103. REPAIR 104. REPLACE 105. REPAIR 106. REPLACE 107. REPAIR 108. REPLACE 109. REPAIR 110. REPLACE 111. REPAIR 112. REPLACE 113. REPAIR 114. REPLACE 115. REPAIR 116. REPLACE 117. REPAIR 118. REPLACE 119. REPAIR 120. REPLACE 121. REPAIR 122. REPLACE 123. REPAIR 124. REPLACE 125. REPAIR 126. REPLACE 127. REPAIR 128. REPLACE 129. REPAIR 130. REPLACE 131. REPAIR 132. REPLACE 133. REPAIR 134. REPLACE 135. REPAIR 136. REPLACE 137. REPAIR 138. REPLACE 139. REPAIR 140. REPLACE 141. REPAIR 142. REPLACE 143. REPAIR 144. REPLACE 145. REPAIR 146. REPLACE 147. REPAIR 148. REPLACE 149. REPAIR 150. REPLACE 151. REPAIR 152. REPLACE 153. REPAIR 154. REPLACE 155. REPAIR 156. REPLACE 157. REPAIR 158. REPLACE 159. REPAIR 160. REPLACE 161. REPAIR 162. REPLACE 163. REPAIR 164. REPLACE 165. REPAIR 166. REPLACE 167. REPAIR 168. REPLACE 169. REPAIR 170. REPLACE 171. REPAIR 172. REPLACE 173. REPAIR 174. REPLACE 175. REPAIR 176. REPLACE 177. REPAIR 178. REPLACE 179. REPAIR 180. REPLACE 181. REPAIR 182. REPLACE 183. REPAIR 184. REPLACE 185. REPAIR 186. REPLACE 187. REPAIR 188. REPLACE 189. REPAIR 190. REPLACE 191. REPAIR 192. REPLACE 193. REPAIR 194. REPLACE 195. REPAIR 196. REPLACE 197. REPAIR 198. REPLACE 199. REPAIR 200. REPLACE 201. REPAIR 202. REPLACE 203. REPAIR 204. REPLACE 205. REPAIR 206. REPLACE 207. REPAIR 208. REPLACE 209. REPAIR 210. REPLACE 211. REPAIR 212. REPLACE 213. REPAIR 214. REPLACE 215. REPAIR 216. REPLACE 217. REPAIR 218. REPLACE 219. REPAIR 220. REPLACE 221. REPAIR 222. REPLACE 223. REPAIR 224. REPLACE 225. REPAIR 226. REPLACE 227. REPAIR 228. REPLACE 229. REPAIR 230. REPLACE 231. REPAIR 232. REPLACE 233. REPAIR 234. REPLACE 235. REPAIR 236. REPLACE 237. REPAIR 238. REPLACE 239. REPAIR 240. REPLACE 241. REPAIR 242. REPLACE 243. REPAIR 244. REPLACE 245. REPAIR 246. REPLACE 247. REPAIR 248. REPLACE 249. REPAIR 250. REPLACE 251. REPAIR 252. REPLACE 253. REPAIR 254. REPLACE 255. REPAIR 256. REPLACE 257. REPAIR 258. REPLACE 259. REPAIR 260. REPLACE 261. REPAIR 262. REPLACE 263. REPAIR 264. REPLACE 265. REPLACE 266. REPLACE 267. REPAIR 268. REPLACE 269. REPAIR 270. REPLACE 271. REPAIR 272. REPLACE 273. REPAIR 274. REPLACE 275. REPAIR 276. REPLACE 277. REPAIR 278. REPLACE 279. REPAIR 280. REPLACE 281. REPAIR 282. REPLACE 283. REPAIR 284. REPLACE 285. REPAIR 286. REPLACE 287. REPAIR 288. REPLACE 289. REPAIR 290. REPLACE 291. REPAIR 292. REPLACE 293. REPAIR 294. REPLACE 295. REPAIR 296. REPLACE 297. REPAIR 298. REPLACE 299. REPAIR 300. REPLACE 301. REPAIR 302. REPLACE 303. REPAIR 304. REPLACE 305. REPAIR 306. REPLACE 307. REPAIR 308. REPLACE 309. REPAIR 310. REPLACE 311. REPAIR 312. REPLACE 313. REPAIR 314. REPLACE 315. REPAIR 316. REPLACE 317. REPAIR 318. REPLACE 319. REPAIR 320. REPLACE 321. REPAIR 322. REPLACE 323. REPAIR 324. REPLACE 325. REPAIR 326. REPLACE 327. REPAIR 328. REPLACE 329. REPAIR 330. REPLACE 331. REPAIR 332. REPLACE 333. REPAIR 334. REPLACE 335. REPAIR 336. REPLACE 337. REPAIR 338. REPLACE 339. REPAIR 340. REPLACE 341. REPAIR 342. REPLACE 343. REPAIR 344. REPLACE 345. REPAIR 346. REPLACE 347. REPAIR 348. REPLACE 349. REPAIR 350. REPLACE 351. REPAIR 352. REPLACE 353. REPAIR 354. REPLACE 355. REPAIR 356. REPLACE 357. REPAIR 358. REPLACE 359. REPAIR 360. REPLACE 361. REPAIR 362. REPLACE 363. REPAIR 364. REPLACE 365. REPAIR 366. REPLACE 367. REPAIR 368. REPLACE 369. REPAIR 370. REPLACE 371. REPAIR 372. REPLACE 373. REPAIR 374. REPLACE 375. REPAIR 376. REPLACE 377. REPAIR 378. REPLACE 379. REPAIR 380. REPLACE 381. REPAIR 382. REPLACE 383. REPAIR 384. REPLACE 385. REPAIR 386. REPLACE 387. REPAIR 388. REPLACE 389. REPAIR 390. REPLACE 391. REPAIR 392. REPLACE 393. REPAIR 394. REPLACE 395. REPAIR 396. REPLACE 397. REPAIR 398. REPLACE 399.
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APICAL INDUSTRIES
2508 TEMPLE HEIGHTS DR.
OCEANS DE, CA 90566-3512 (760)724-5300

SHEETMETAL

646.3700

SCALE 1/2" = 1'-0" SHEET 2 OF 2



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35521**

Purchase Order Date 3/8/2017

PO Print Date 3/10/2017

Page Number 4 of 7

Order From :

VC-ATG001

Ship To : DART AEROSPACE LTD

A.T.G. INDUSTRIES INC.
731 INDUSTRIELLE ROAD
ROCKLAND, ON K4K 1T2
CANADA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 613-446-4544

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

9	156875	646.3312 CENTER PLATE REV. N/C	3/27/2017	10.00	\$12.05	\$120.50
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Yes

3/27/2017

FINISH: HARD BLACK ANODIZE AS PER IAW MIL-A-8625 TYPE III, CLASS 2 / PRIME AS PER IAW MIL-PRF-23377 TYPE I CLASS N

Line Total: \$120.50

10	156880	646.3610 FILLER REV. N/C	3/27/2017	18.00	\$6.60	\$118.80
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Yes

3/27/2017

FINISH: HARD BLACK ANODIZE AS PER IAW MIL-A-8625 TYPE III, CLASS 2 / PRIME AS PER IAW MIL-PRF-23377 TYPE I CLASS N

Line Total: \$118.80

1	156840	646.3711 CLIP REV. A	3/27/2017	10.00	\$6.10	\$61.00
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DAS
38
9-89

Yes

3/27/2017

FINISH: HARD BLACK ANODIZE AS PER IAW MIL-A-8625 TYPE III, CLASS 2 / PRIME AS PER IAW MIL-PRF-23377 TYPE I CLASS N

Line Total: \$61.00

PO Instructions: PRIMER IS SUPPLIED BY DART

Note:

3/10/2017



A.T.G. INDUSTRIES INC.
731 INDUSTRIELLE STREET
ROCKLAND, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 913083

Date: 24-Mar-17

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chantal Lavoie
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9377 Fax: 613 632-9377		Ship Via	
Terms			
Quantity	Description		
	PLEASE REFERENCE THE PACK LIST NUMBER ON ALL CORRESPONDENCE TO THIS SHIPMENT. IF YOU HAVE ANY QUESTIONS, PLEASE CALL AT (613) 446-4544.		
18 ea	Part: 646.3610 Filler Hard Black Anodize per MIL-A-8625F, Type III, Class 2 Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied) Job: 20777		Rev: N/C PO: PO35521 Line: 10
10 ea	Part: 646.3711 Clip Hard Black Anodize per MIL-A-8625F, Type III, Class 2 Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied) Job: 20778		Rev: A PO: PO35521 Line: 11
DAS 38 9-89	SP17-03-27		
10 ea	Part: 646.3712 Clip Hard Black Anodize per MIL-A-8625F, Type III, Class 2 Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied) Job: 20779		Rev: A PO: PO35521 Line: 12
5 ea	Part: 646.3813 Strut Hard Black Anodize per MIL-A-8625F, Type III, Class 2 Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied) Job: 20780		Rev: N/C PO: PO35521 Line: 13
10 ea	Part: 646.9710 Body Hard Black Anodize per MIL-A-8625F, Type III, Class 2 Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied) Job: 20781		Rev: D PO: PO35521 Line: 14
10	Part: 646.9910		Rev: N/C



A.T.G. INDUSTRIES INC.
731 INDUSTRIELLE STREET
ROCKLAND, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 913083

Date: 24-Mar-17

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chantal Lavoie
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms	Ship Via
Quantity	Description
	DATE : <u>24/03/2017</u>
	CERTIFIED SIGNATURE <u>[Signature]</u>
	RECEIVER SIGNATURE : <u>SPIT-03-27</u>
	Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt.
	CERTIFICATE OF CONFORMANCE
	A.T.G. INDUSTRIES INC. CERTIFIES THAT ALL ITEMS IN THIS SHIPMENT CONFORM TO REQUIREMENTS.
	MADE IN CANADA.